## DR SERIES FORCED DRAFT 15# & 150# STEAM BOILER (DR250-DR850) REVERSE CONSTRUCTION

EFFECTIVE DATE:

12/9/03

REPLACES: 10/29/03

NOTES:

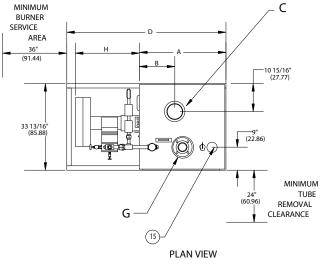
1. ALL DIMENSIONS ARE IN INCHES THOSE IN PARENTHESES ARE CENTIMETERS.

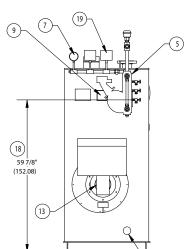
2. LOCATION DIMENSIONS ARE ALL  $\pm 1/2$ ".

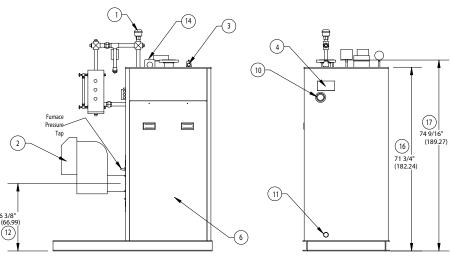
3. GAS TRAIN, CONTROL AND BURNER CONFIGURATION WILL VARY DEPENDING ON JOB SPECIFICATIONS & CONDITIONS.

4. DIMENSIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE. CONSULT FACTORY FOR CERTIFIED DIMENSIONS.

5. ALL FLANGES ARE 150# UNLESS OTHERWISE NOTED, FLANGES TO STRADDLE CENTER LINE.







FRONT VIEW RIGHT SIDE VIEW REAR VIEW

1. PROBE TYPE AUX. L.W.C.O.

2. FORCED DRAFT BURNER

3. RELIEF VALVE

4. ASME NAMEPLATE 5. LWCO/PUMP CONTROL - 157 6. JACKET ACCESS PANELS

7. PRESSURE GAUGE

8. CLNOUT./INSP. OPNG.-1 1/2"NPT

9. ELEC. ENCLOSURE -

10. CLNOUT./INSP. OPNG. - 2" NPT

11. DRAIN/ BLOWDOWN - 1" NPT

12. BURNER CENTER LINE

13. OIL PUMP LOCATION

14. LIFTING LUG

15. FEED CONNECTION 2" NPT

16. HEIGHT OVER JACKET

17. HEIGHT OVER SUPPLY

18. MINIMUM SAFE WATER LEVEL

19. PRESSURE CONTROLS

BOILER MODEL	DR250	DR350	DR450	DR650	DR850		
A-LENGTH OVER JACKET	33 3/4" (85.72)	33 3/4" (85.72)	33 3/4" (85.72)	45 1/16" (114.45)	45 1/16" (114.45)		
B-FLUE LOCATION	13 3/4" (34.92)	13 3/4" (34.92)	13 3/4" (34.92)	13 3/4" (34.92)	13 3/4" (34.92)		
C-FLUE DIAMETER	6" (15.24)	6" (15.24)	6" (15.24)	8" (20.32)	8" (20.32)		
D-LENGTH OVER BASE	62 1/8" (157.79)	62 1/8" (157.79)	62 1/8" (157.79)	73 1/2" (186.69)	73 1/2" (186.69)		
G-SUPPLY NOZZLE SIZE	3" (7.62)	3" (7.62)	3" (7.62)	4" (10.16)	4" (10.16)		
H-BURNER EXTENSION	(	CONSULT FACTORY FOR BURNER EXTENSION					



783 NORTH CHILI AVE PERU, INDIANA 46970

ORDER NO.:	
ORDER REV. NO.:	_
FORM NO.:	2178

## DR SERIES FORCED DRAFT STEAM BOILERS REVERSE CONSTRUCTION

	DR250	DR350	DR450	DR650	DR850
МВН	250	350	450	650	850
(KW)	73.2	102.5	131.8	190.4	249.0
МВН	200	280	360	520	680
(KW)	58.6	82.0	105.5	152.4	199.2
HP	6	8	10	15	20
(KW)	58.6	82.0	98.0	147.0	196.0
INCHES	1.00	1.00	1.00	1.00	1.00
(CM)	2.54	2.54	2.54	2.54	2.54
	18	18	18	29	29
GAL	31	31	31	45	45
(L)	117.3	117.3	117.3	170.3	170.3
SQ FT	66	66	66	103	103
(SQ M)	6.1	6.1	6.1	9.6	9.6
LBS/HR	206	288	371	536	701
(KG/HR)	93.4	130.6	168.3	243.1	318.0
LBS	1,408	1,408	1,408	2,025	2,025
(KG)	638.9	638.9	638.9	918.6	918.6
LBS	1,150	1,150	1,150	1,650	1,650
(KG)	521.6	521.6	521.6	748.4	748.4
PSIG (103.4 K	(PA)				
	A V	(1) 13-213-08	(1) 13-213-08	(1) 13-213-08	(1) 13-213-08
INCHES	a Ni	1-1/4 x 1-1/4	1-1/4 x 1-1/4	1-1/4 x 1-1/4	1-1/4 x 1-1/4
(CM)	o I	3.175 x 3.175	3.175 x 3.175	3.175 x 3.175	3.175 x 3.175
МВН	b	1,200	1,200	1,200	1,200
(KW)	e	351.6	351.6	351.6	351.6
PSIG (1034.0	) KPA)				
	(1) 6021DC01	(1) 6021DC01	(1) 6021DC01	(1) 6021DC01	(1) 6021DC01
INCHES	1/2 x 3/4	1/2 x 3/4	1/2 x 3/4	1/2 x 3/4	1/2 x 3/4
(CM)	1.27x1.905	1.27x1.905	1.27x1.905	1.27x1.905	1.27x1.905
МВН	925	925	925	925	925
(KW)	271.0	271.0	271.0	271.0	271.0
	(KW)  MBH  (KW)  HP  (KW)  INCHES  (CM)  GAL  (L)  SQ FT  (SQ M)  LBS/HR  (KG/HR)  LBS  (KG)  LBS  (KG)  LBS  (KG)  PSIG (103.4 K  INCHES  (CM)  MBH  (KW)  PSIG (1034.6  INCHES  (CM)  MBH	MBH 250 (KW) 73.2  MBH 200 (KW) 58.6  HP 6 (KW) 58.6  INCHES 1.00 (CM) 2.54  18  GAL 31 (L) 117.3  SQ FT 66 (SQ M) 6.1  LBS/HR 206 (KG/HR) 93.4  LBS 1,408 (KG) 638.9  LBS 1,150 (KG) 521.6  PSIG (103.4 KPA)  A V  INCHES N i O I CM) t a b CMBH I CKW)  PSIG (1034.0 KPA)  (CM) 1.27x1.905  MBH 925	MBH 250 350  (KW) 73.2 102.5  MBH 200 280  (KW) 58.6 82.0  HP 6 8  (KW) 58.6 82.0  INCHES 1.00 1.00  (CM) 2.54 2.54  18 18  GAL 31 31  (L) 117.3 117.3  SQ FT 66 66  (SQ M) 6.1 6.1  LBS/HR 206 288  (KG/HR) 93.4 130.6  LBS 1,408 1,408  (KG) 638.9 638.9  LBS 1,150 1,150  (KG) 521.6 521.6  PSIG (103.4 KPA)  A (1) 13-213-08  N i O I (1) 1-1/4 x 1-1/4  CCM) A (1) 13-213-08  N i O I (1) 1-1/4 x 1-1/4  N i O I (1) 1-1/4 x 1-1/4  CCM) C I (1) 6021DC01  INCHES 1/2 x 3/4 1/2 x 3/4  (CM) 1.27x1.905 1.27x1.905  MBH 925 925	MBH	MBH 250 350 450 650  (KW) 73.2 102.5 131.8 190.4  MBH 200 280 360 520  (KW) 58.6 82.0 105.5 152.4  HP 6 8 10 15  (KW) 58.6 82.0 98.0 147.0  INCHES 1.00 1.00 1.00 1.00 1.00  (CM) 2.54 2.54 2.54 2.54 2.54  18 18 18 29  GAL 31 31 31 31 45  (L) 117.3 117.3 117.3 170.3  SQ FT 66 66 66 66 103  (SQ M) 6.1 6.1 6.1 9.6  LBS/HR 206 288 371 536  (KG/HR) 93.4 130.6 168.3 243.1  LBS 1,408 1,408 1,408 2,025  (KG) 638.9 638.9 638.9 918.6  LBS 1,150 1,150 1,150 1,650  (KG) 521.6 521.6 521.6 748.4  PSIG (103.4 KPA)  A (1) 13-213-08 (1) 13-213-08 (1) 13-213-08  PSIG (103.4 KPA)  PSIG (1034.0 KPA)  PSIG (1034.0 KPA)  (1) 6021DC01 (1) 6021DC01 (1) 6021DC01 (1) 6021DC01  INCHES 1/2 x 3/4 1/2 x 3/4 1/2 x 3/4 1/2 x 3/4  (CM) 1.27x1.905 1.27x1.905 1.27x1.905  MBH 925 925 925 925 925 925

<sup>\*</sup> Output based on nominal 80% of input. Actual combustion efficiencies will be higher and fuel dependent.